

Amendments to the Specification:

Please replace paragraph [0014] with the following amended paragraph:

[0014] In a further currently preferred embodiment for thermal insulation, the distribution system and evaporator structures are arranged, spaced from one another, in the spaces. The [Possibility] possibility that gas, known to be a poor heat conductor, can be used for insulating the distribution system that consequently be surprisingly utilized in a simple and efficient way.

[0021] Fig. 1 shows a device according to the invention in the form of a reactor. The device 1 is provided for [reeding] feeding media M to parallel spaces 3 separated from one another. A distributor unit 2 feeds a medium M, for example an educt or an educt mixture, in liquid form to the spaces 3, and the medium is evaporated in the spaces 3 by evaporator structures. The [euapora,tor] evaporator structures for [evaporator] evaporating the liquid medium may be formed, for example, by the boundary walls of the spaces 3 or else by nets or similar surfaces. The evaporator structures may also be [cathect] coated catalytically. The evaporated medium can then be conducted from the evaporator structure to a reaction region.

[0023] In each stage an outlet 21 of the distributor unit 2 is assigned to a single space 3. Each outlet 21 projects to the associated space 3. The medium M can thus be metered specifically into the respectively associated space 3. In this case, the

boiling point T_s of the medium M in the [distributor] distributor unit 2 is above the temperature of the medium in the distributor unit 2. This ensures that the medium cannot evaporate in the distributor unit 2. This can be brought about by various measures and techniques that can be applied individually or else in combination with one another.